

Figure 1

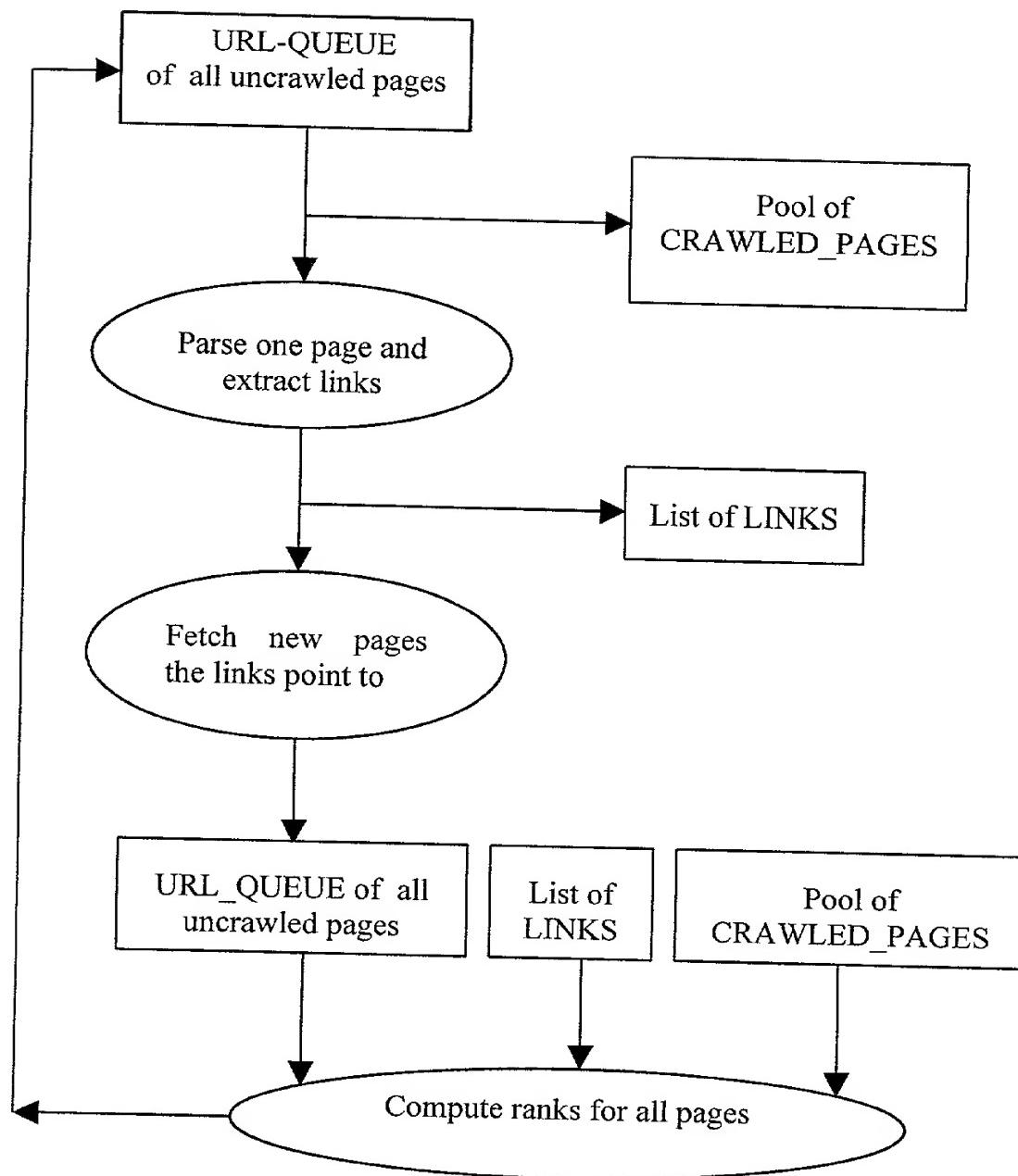
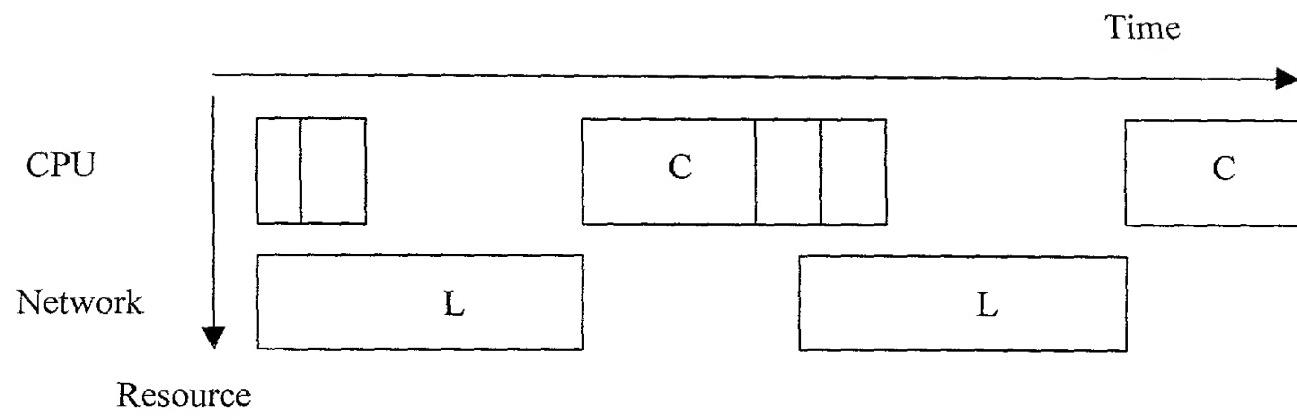


Figure 2

```
Enqueue(URL_QUEUE, starting_url);
While(!Empty(URL_QUEUE)) {
    url = Dequeue(URL_QUEUE);
    page = Crawl_page(url);
    Enqueue(CRAWLED_PAGES, (url, page));
    PAGE_TO_FETCH_LIST = Extract_urls(page);
    For each u in PAGE_TO_FETCH_LIST {
        Enqueue(LINKS, (url, u));
        If ((u not in URL_QUEUE) and ((u,.) not in CRAWLED_PAGES)) {
            Fetch_page(u);
            Enqueue(URL_QUEUE, u);
        }
    }
    Compute_PageRank(URL_QUEUE+CRAWLED_PAGES);
    Reorder_queue(URL_QUEUE);
}
```

Figure 3



F: Initiating page fetches (protocol management)

R: Receiving/taking pages from incoming queue

C: Computation

L: Loading pages from remote servers through network

Figure 4

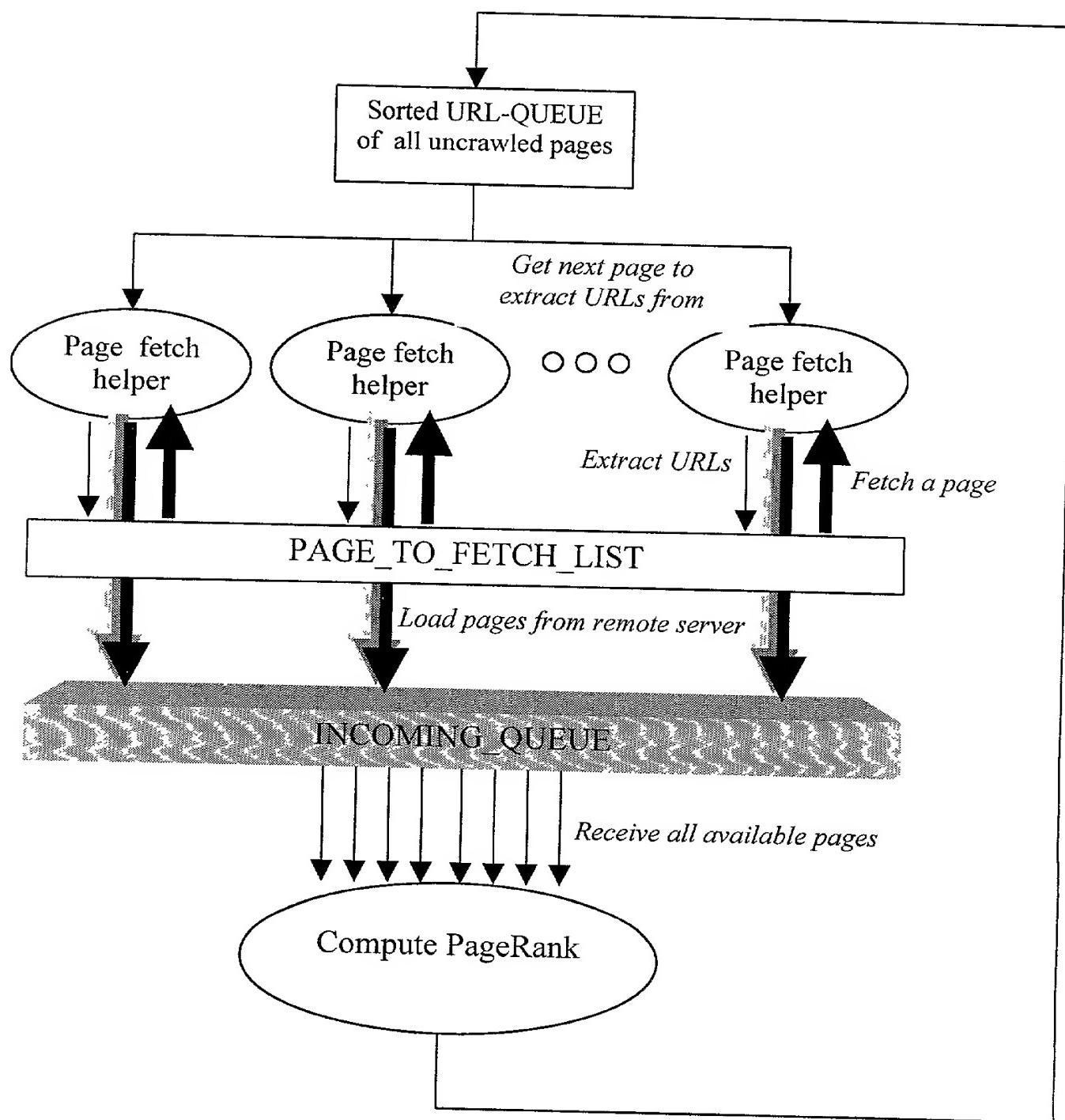


Figure 5